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(54) METHOD OF PURIFYING COLLAGEN

(57) Abstract:

PURPOSE: To obtain high-purity collagen in high yield, by extracting and removing substances except collagen from collagen-containing animal tissue with a dilute alkali solution having \leq a given concentration, to remove non-collagen substance efficiently.

CONSTITUTION: Collagen-containing animal tissue obtained by grinding or fine crushing by a common

device and method is blended with ≤ 1.0 N, preferably ≤ 0.5 dilute alkali solution by stirring, shaking, etc. NaOH, KOH, etc., are used as the alkali. Non-collagen substances are extracted in the alkali solution by the blending treatment and removed, to give high-purity collagen as an extraction residue. The alkali treatment is carried out preferably at \leq room temperature usually. When unmodified collagen is purified, a temperature condition not to denature collagen by heat is required.

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